



A.D. 1867, 1st *FEBRUARY*. N° 286.

S P E C I F I C A T I O N

OF

NEHEMIAH TAYLOR FOLSOM.

ATMOSPHERIC PLATES FOR ARTIFICIAL
TEETH.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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A.D. 1867, 1st FEBRUARY. N^o 286.

Atmospheric Plates for Artificial Teeth.

LETTERS PATENT to Nehemiah Taylor Folsom, of Laconia, in the State of New Hampshire, United States of North America, Dentist, for the Invention of "IMPROVEMENTS IN THE ATMOSPHERIC PLATES OF ARTIFICIAL TEETH."

Sealed the 30th July 1867, and dated the 1st February 1867.

PROVISIONAL SPECIFICATION left by the said Nehemiah Taylor Folsom at the Office of the Commissioners of Patents, with his Petition, on the 1st February 1867.

I, NEHEMIAH TAYLOR FOLSOM, of Laconia, in the State of New Hampshire, United States of North America, Dentist, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN THE ATMOSPHERIC PLATES OF ARTIFICIAL TEETH," to be as follows:—

The said improvements consist in the employment of a ridge or number of ridges raised above the surface of the plates, generally near the edges thereof, the said ridges bearing against the gums or inner surface of the mouth, and serving as a narrow packing surface to exclude the air from within the ridges with great certainty and efficiency. These packing ridges obviate the main difficulty in wearing artificial teeth, which difficulty arises from the usual imperfection in the means heretofore employed to keep the air excluded from behind the plates or bases of the teeth, so as to retain the atmospheric pressure whereby the teeth are held in place. By thus presenting a narrow surface raised a little from the general surface of the plates a sure contact for

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the whole length of the said ridges is easily obtained, and the latter can very readily be fitted to the gums or surface of the mouth. The extent of the ridges or projections need only be sufficient to fit the gums or surface of the mouth and to allow so much cutting or scraping away as may be necessary to fit them to the irregularities of the surfaces with which they come in contact. 5 The said ridges may be formed in any desired position on the plates, and at any distance from their edges, and need not encircle the whole plate ; nor is it absolutely necessary that the ridge or ridges should be continuous, or should entirely enclose a space. Although I prefer to use only one ridge on each plate any number of the said ridges may be employed, and the same may be used 10 either with or without an atmospheric chamber.

The said Invention is applicable to dental plates of vulcanized india-rubber, gold, or any other material. The ridges may be applied to the plates both of the upper and under teeth. The said ridges are ordinarily moulded and cast with the plate, and afterwards fitted to the gums and surfaces of the mouth. 15

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Nehemiah Taylor Folsom in the Great Seal Patent Office on the 31st July 1867.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, NEHEMIAH TAYLOR FOLSOM, of Laconia, in the State of New Hampshire, United States 20 of North America, Dentist, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the First day of February, in the year of our Lord One thousand eight hundred and sixty-seven, in the thirtieth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said 25 Nehemiah Taylor Folsom, Her special licence that I, the said Nehemiah Taylor Folsom, my executors, administrators, and assigns, or such others as I, the said Nehemiah Taylor Folsom, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might 30 make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for “**IMPROVEMENTS IN THE ATMOSPHERIC PLATES OF ARTIFICIAL TEETH,**” upon the condition (amongst others) that I, the said Nehemiah Taylor Folsom, my executors or administrators, by an instrument in writing under my, or their, 35 or one of their hands and seals, should particularly describe and ascertain

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the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

5 **NOW KNOW YE**, that I, the said Nehemiah Taylor Folsom, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

My Invention consists in the employment of a ridge raised above the
10 surface of the plate, generally near the edges thereof, the said ridge bearing against the gums or inner surface of the mouth, and serving as a narrow packing surface to exclude the air from within the ridge with great certainty and efficiency. This packing ridge obviates the main difficulty in wearing
15 heretofore employed to keep the air excluded from behind the plates or bases of the teeth, for retaining the atmospheric pressure by which the teeth are held in place. By thus presenting a narrow surface raised a little from the general surface of the plates a sure contact the whole length of the ridge is easily obtained, and the ridge can very readily be fitted
20 to the gums or surface of the mouth, a result scarcely obtainable with the ordinary plates, and never fully practicable except with great labor and care. The extent of the ridge projection is in general quite small, requiring only to be sufficient to surely receive the contact of the gums or surface of the mouth along its entire length, and to allow as much cutting or scraping away as may
25 be necessary to fit it to the irregularities of the surfaces with which it comes in contact, hence it may vary in different places.

I do not confine the Invention to any particular position on each plate, or any particular distance from its edges ; nor do I limit it to the whole plate, or any part thereof, nor is it absolutely necessary, though desirable, that the ridge
30 should be continuous or entirely inclose a space ; and although I contemplate the use of only one ridge on each plate I do not confine myself to the use of any particular number, whether one or more ; the ridge also may be used either with or without an atmospheric chamber ; it is applicable to dental plates of vulcanized india-rubber, of gold, or of any other material. The
35 ridge is applicable to the plates both of the upper and under teeth ; it is ordinarily moulded and cast with the plate, and afterward fitted to the gums and surfaces of the mouth.

In the accompanying Drawings, Fig. 1 represents a top view, and Fig. 2 a view in perspective of the upper dental plate of a set of artificial teeth

Folsom's Improvements in the Atmospheric Plates of Artificial Teeth.

provided with my improvement. A, indicates the plate of the form required and *a* is the packing ridge, situated ordinarily near the edges of the plate, and nearly parallel therewith. Fig. 3 represents a cross section of one edge of the plate, and of the ridge indicating the extent of projection usually given to the ridge.

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In fitting the plate to the mouth there are found depressions and protuberances, hard places and soft, with greater or less thickness of skin or other soft tissue over the bones and cartilages of the mouth. To adapt the plate to these irregularities of surface with my packing ridge all that is necessary is to pare away the ridge more or less as the surface may require, and this is 10 readily and easily accomplished. Once fitted, since this ridge is sure to bear all along its edge against the surface of and becomes indented in the skin, the atmosphere is everywhere excluded permanently without fail.

What I claim as my Invention is a packing ridge *a* applied in any manner to the atmospheric plates of artificial teeth, whether as a single ridge or more; 15 whether entirely or partially encircling the plates or inclosing a space; whether close to or further from the edges thereof in any form or direction, and of any material.

In witness whereof, I, the said Nehemiah Taylor Folsom, have hereunto set my hand and seal, this Thirtieth day of May, in the year of our 20 Lord 1867.

NEHEMIAH TAYLOR FOLSOM. (L.S.)

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FIG. 1.

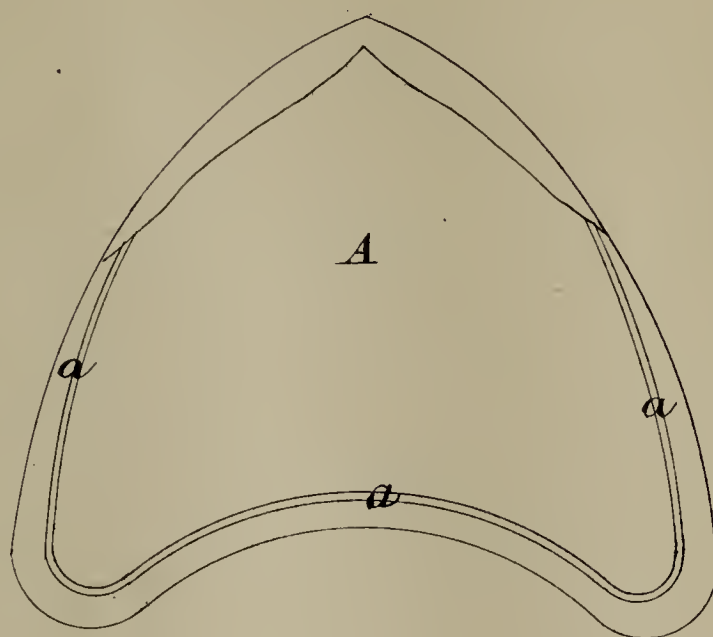


FIG. 2.

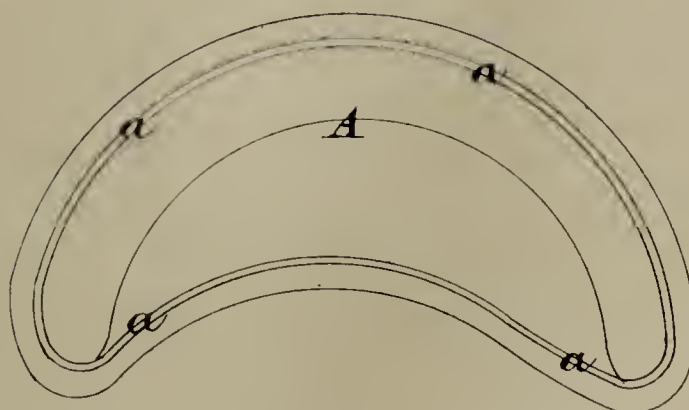


FIG. 3.



The filed drawing is colored.

Drawn on Stone by Malby & Sons,

